

Product datasheet for SC112763

Caspase 1 (CASP1) (NM_033295) Human Untagged Clone

Product data:

Product Type: Expression Plasmids Product Name: Caspase 1 (CASP1) (NM_033295) Human Untagged Clone Tag: Tag Free Symbol: Caspase 1 ICE; IL1BC; P45 Synonyms: **Mammalian Cell** None Selection: Vector: pCMV6-XL5 E. coli Selection: Ampicillin (100 ug/mL) >NCBI ORF sequence for NM_033295, the custom clone sequence may differ by one or more Fully Sequenced ORF: nucleotides

ATGGCCGACAAGGTCCTGAAGGAGAAGAGAAAGCTGTTTATCCGTTCCATGGGTGAAGATAATGTTTCTT GGAGACATCCCACAATGGGCTCTGTTTTTATTGGAAGACTCATTGAACATATGCAAGAATATGCCTGTTC CTGTGATGTGGAGGAAATTTTCCGCAAGGTTCGATTTTCATTTGAGCAGCCAGATGGTAGAGCGCAGATG CCCACCACTGAAAGAGTGACTTTGACAAGATGTTTCTACCTCTTCCCAGGACATTAA

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5' Read Nucleotide Sequence:	<pre>>OriGene 5' read for NM_033295 unedited GATTATGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGCAGTAGGAGTTT CTGGAAACCTATCTTTACCAACTACAGAAGAGTTTGAGGATGATGCTATTAAGAAAGCCC ACATAGAGAAGGATTTTATCGCTTTCTGCTCTTCCACACCAGATAATGTTTCTTGGAGAC ATCCCACAATGGGCTCTGTTTTTATTGGAAGACTCATTGAACATATGCAAGAATATGCCT GTTCCTGTGATGTGGAGGAAATTTTCCGCAAGGTTCGATTTTCATTGAGCAGCAGAGCGCAGATG GTAGAGCGCAGATGCCCACCACTGAAAGAGTGACTTTGACAAGATGTTTCTACCTCTCC CAGGACATTAAAATAAGGAAACTGTATGAATGTCTGTGGGGCAGGTACATGTGTATGGTCG GGAGTGTGGGAAGGTTGAGGAAAGGGTACTGAAAGTCCATTTGAACAATGTCTAAGATCCTAAG TTACAGGCTGAGAATCCTTAATCCAAAAATTTGAATTGTCATGAGCACACACTCTAAGT TTACAGGCTGAGAATCCTTAATCCAAAAATTTGAATTTTGAAATGCTCTAAAATCCAACA CTGTGTGAGCGCCCCACATGATATTCAAAGGAAATGTTTATTGAAACGTCTAAAATCCAACA CTGTGTGAGGATGCTAAACCAGTAAGGATATCCAAGCGAAATTCCAAATATAAG GTTTTTGGATTAGGGATGCTAAACCAGTAAGTATACAGCTGAATTCCAATATACAAAAAT ATCTGAAATTGAAATACTTCTGGTAGCATGCATTTGGATAAGGGATAATCAAGCCATA TACANGAAATACTGAAGTAATGTCTTTCTCTGGTCAGTGCAGGAGCACGTTGCTCTTCT CCAAGTTTTCCATTTAGACCCCTTTTGAGATCATCTGATATTGGCTAGAAGTGCCGTAGA CTACAACCCCCACTTTTGAGTACCACTGCATGTGGCAGGAGCACGTTGCTCTTCTC CCAAGCTTCCTCTTTGAGTATGTTCTCTCCCCCACGGTGGNNNATACTTATAACATAGCA TGTGGNNCTTCCTTTTAAAATGTGTATGNTCCCCCATGGTGGNNNATACTTATACTNGCAT GTCTTTACAAAATCCTTTNCTTGTTTA </pre>
Restriction Sites:	Notl-Notl
ACCN:	NM_033295
Insert Size:	1650 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 033295.1, NP 150637.1</u>
RefSeq Size:	443 bp
RefSeq ORF:	267 bp
Locus ID:	834
UniProt ID:	<u>P29466</u>
Cytogenetics:	11q22.3
Protein Families:	Druggable Genome, Protease

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Protein Pathways: Amyotrophic lateral sclerosis (ALS), Cytosolic DNA-sensing pathway, NOD-like receptor signaling pathway

Gene Summary:This gene encodes a protein which is a member of the cysteine-aspartic acid protease
(caspase) family. Sequential activation of caspases plays a central role in the execution-phase
of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic
processing at conserved aspartic residues to produce 2 subunits, large and small, that
dimerize to form the active enzyme. This gene was identified by its ability to proteolytically
cleave and activate the inactive precursor of interleukin-1, a cytokine involved in the
processes such as inflammation, septic shock, and wound healing. This gene has been shown
to induce cell apoptosis and may function in various developmental stages. Studies of a
similar gene in mouse suggest a role in the pathogenesis of Huntington disease. Alternative
splicing results in transcript variants encoding distinct isoforms. [provided by RefSeq, Mar
2012]
Transcript Variant: This variant (epsilon) has multiple differences in the coding region but the

transcript variant. This variant (epsilon) has multiple differences in the coung region but the translation remains in frame, compared to variant alpha. Variant epsilon encodes a protein lacking an internal segment, compared to isoform alpha. Isoform epsilon lacks apoptosis-inducing activity. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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